

October 5, 2006

DEVELOPMENTAL EDUCATION UPDATE **The Preparation of Students Entering** **Kentucky's Public Colleges and Universities** **in 2002 and 2004**

The following update presents information on students entering Kentucky's public postsecondary institutions in 2004, with comparisons to the entering class of 2002. This information updates CPE's 2005 report entitled, "Underprepared Students in Kentucky: A First Look at the 2001 Mandatory Placement Policy."

Changes from 2002 to 2004

In general, student preparation levels followed the same patterns in 2004 that they did in 2002. Once again, a majority of students entered postsecondary study with at least one developmental need, and math remained the subject of greatest need. Preparation remained highly correlated with students' demographic characteristics and educational backgrounds, with large differences in preparation by racial-ethnic category and for adult students and those entering with a GED. Among institutions, students entering the Kentucky Community and Technical College System (KCTCS) and the comprehensive universities that serve regions with the greatest educational needs were the least prepared for college study. In fact, the preparation gap between the two and four-year public sectors grew slightly between 2002 and 2004, with an increase in the proportion of KCTCS entrants with developmental needs and a decrease in the four-year sector.

How well prepared were all entrants into Kentucky's public colleges and universities?

Recent graduates of Kentucky high schools made up only about three-fifths of the postsecondary entering class of 2004. The other two-fifths consisted of adult students, Kentuckians who came to college with a GED, and out-of-state students. When planning and evaluating

developmental education services, the developmental needs of all these college entrants must also be taken into consideration.

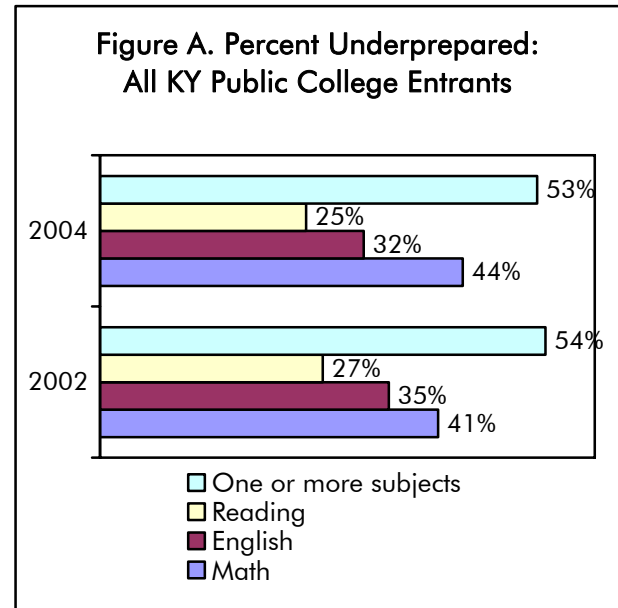
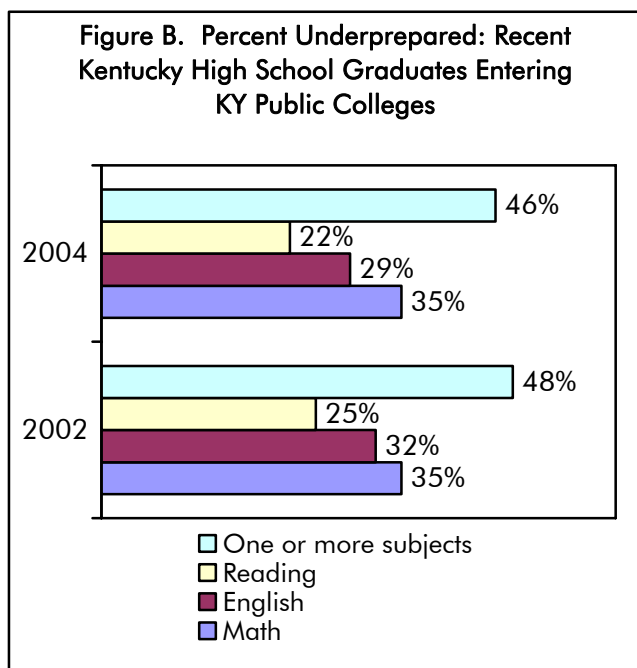


Figure A presents the preparation levels of all college entrants in 2002 and 2004. The proportion underprepared in one or more subjects decreased slightly from 54 to 53 percent. Developmental needs in English and reading dropped a few percentage points as well, but the proportion who were underprepared in math increased three percentage points from 41 to 44 percent. Given that the developmental needs of recent Kentucky high school graduates remained unchanged during this period, this increase was due to adult students and students with GEDs, overlapping groups that were less well prepared in 2004 than they were in 2002. The proportion of adult students with one or more developmental needs increased from 80 to 90 percent during this period, and this number increased from 82 to 92 percent among Kentucky GED graduates. Detailed information

on the preparation levels of all college entrants can be found in tables 1-4 on pages 4-9 of this report.

How well prepared were recent graduates of Kentucky high schools?

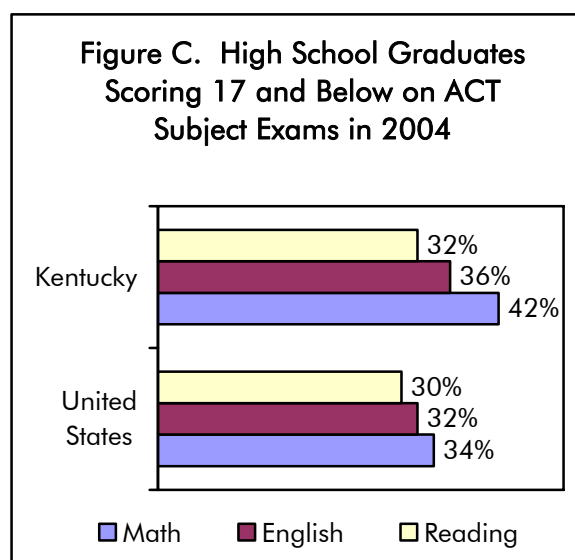
The preparation level of recent graduates of Kentucky high schools who entered college (three-fifths of all entrants) improved slightly from 2002 to 2004. Figure B presents the preparation level overall and by subject of these students for both years. Students were classified as underprepared if they scored a 17 or lower on the ACT subject exam in math, English, or reading, or the equivalent level on the SAT or a standardized on-campus placement exam.



The proportion of students underprepared in one or more subjects dropped slightly from 48 percent in 2002 to 46 percent in 2004, and the percent underprepared in English and reading both declined by three percentage points. The proportion underprepared in math was unchanged. Slight declines also occurred in the proportion of students who came to college underprepared in multiple subjects. Detailed information about recent graduates of Kentucky high schools, including preparation levels by

institution and demographic categories can be found in tables 5-8 on pages 10-15.

Figure C presents the best available national comparison for this data, the percent of high school graduates in Kentucky and nationally who scored 17 or lower on ACT subject exams in 2004 (although ACT, Inc. cautions against making this kind of comparison because of the large demographic differences between states). Kentucky's 2004 high school graduates performed slightly below all test-takers nationally in English and reading, and considerably below in math, with 42 percent scoring 17 or less, compared to 34 percent nationally.

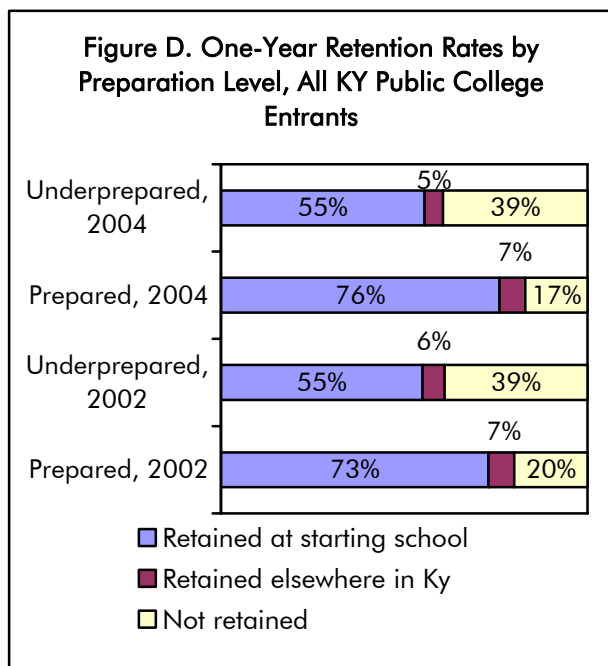


Maps showing the developmental needs of recent Kentucky high school students by county are included in the appendix.

Were underprepared students retained?

In 2004, the large gap in one-year retention rates between prepared and underprepared students remained. Figure D presents this information for both years. While retention to a second year of study increased among students who came prepared for college, the proportion of underprepared students who were retained remained identical. Underprepared students were still twice as likely to drop out of college as prepared students. And in both 2004 and 2002, students who came to college

underprepared in more than one subject were more likely to drop out than those underprepared in just one subject. More information about one-year retention and preparation can be found in tables 9-10 on pages 16-17.



Background and Data

In fall 2001, Kentucky instituted a placement policy mandating that all students entering undergraduate programs at public institutions who receive a score of 17 or below on ACT subject exams in math, English or reading be placed in remedial coursework or receive supplemental help in those subjects. This study examines the entry classes of 2002 and 2004 and follows them through their first two years of postsecondary study, examining their remedial needs and their retention to the second year. A second report on the extent and effectiveness of developmental courses taken by the 2004 entry cohort will be released in early November 2006.

The data used in this report are administrative data submitted as student unit records by the public postsecondary institutions to the Council's Comprehensive Database and Kentucky Adult Education databases between 2002 and 2006. The report is based on descriptive statistics about the students who entered Kentucky's public two-

and four-year institutions in the summer or fall of 2002 and the summer or fall of 2004 as full- or part-time students seeking degrees or other credentials, and for whom CPE received the ACT, SAT, or standardized on-campus placement exam scores needed to classify their preparation level. A total of 26,646 students entering in 2002 and 26,087 students entering in 2004 are included in the study.

Summary

The proportion of students who entered postsecondary study with developmental needs in 2004 remained substantial, especially among non-traditional students. Some gains were seen in the preparation of recent high school graduates during the two years under study, although compared to national ACT scores, Kentucky still has significant room for improvement.

The increase in developmental needs among adult students and GED holders suggests that developmental education will continue to be essential to the Council's efforts to build Kentucky's educational attainment and enhance its citizens' economic prospects. The high level of developmental needs among these students also underscores the importance of adult education in the Commonwealth and Kentucky Adult Education's efforts to improve the college-readiness of its students.

Table 1. Underprepared Students by Institution and Sector: Incoming Classes of 2002 and 2004

		2002 credential-seeking cohort with placement data		2004 credential-seeking cohort with placement data	
		Number	Percent Underprepared	Number	Percent Underprepared
Two-year public	KCTCS	10,545	76.0%	9,144	82.6%
Four-year public	Eastern Kentucky University	2,163	47.9%	2,550	47.3%
	Kentucky State University	313	85.3%	363	80.7%
	Morehead State University	1,418	61.0%	1,318	62.2%
	Murray State University	1,434	38.8%	1,366	31.6%
	Northern Kentucky University	1,907	59.1%	2,032	54.4%
	University of Kentucky	3,671	14.5%	3,952	10.8%
	University of Louisville	2,260	23.1%	2,339	19.3%
	Western Kentucky University	2,935	47.6%	3,023	50.5%
	Sector Total	16,101	39.2%	16,943	37.0%
TOTAL		26,646	53.7%	26,087	53.0%

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English, or reading, or at an equivalent level on the SAT or a standardized on-campus placement exam.

Table 2a. Underprepared Students in Mathematics by Institution and Sector

		2002 credential-seeking cohort with placement data		2004 credential-seeking cohort with placement data	
		Number	Percent Underprepared	Number	Percent Underprepared
Two-year public	KCTCS	10,094	59.5%	8,833	74.9%
Four-year public	Eastern Kentucky University	2,129	36.4%	2,499	35.8%
	Kentucky State University	270	76.3%	324	68.8%
	Morehead State University	1,357	47.3%	1,276	48.4%
	Murray State University	1,429	21.0%	1,365	21.4%
	Northern Kentucky University	1,695	44.8%	1,729	36.0%
	University of Kentucky	3,359	8.0%	3,608	5.9%
	University of Louisville	2,063	13.8%	2,088	12.1%
	Western Kentucky University	2,808	36.4%	2,883	39.2%
	Sector total	15,110	28.2%	15,772	26.9%
TOTAL		25,204	40.7%	24,605	44.1%

(Students missing exam results on one or more of these subjects are excluded from table 2a, totaling 1,442 in 2002 and 1,482 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 2b. Underprepared Students in English by Institution and Sector

		2002 credential-seeking cohort with placement data		2004 credential-seeking cohort with placement data	
		Number	Percent Underprepared	Number	Percent Underprepared
Two-year public	KCTCS	10,094	51.8%	8,833	48.9%
Four-year public	Eastern Kentucky University	2,129	29.1%	2,499	27.9%
	Kentucky State University	270	74.8%	324	58.3%
	Morehead State University	1,357	39.5%	1,276	40.2%
	Murray State University	1,429	27.9%	1,365	13.7%
	Northern Kentucky University	1,695	40.1%	1,729	40.9%
	University of Kentucky	3,359	6.0%	3,608	3.8%
	University of Louisville	2,063	9.0%	2,088	7.2%
	Western Kentucky University	2,808	28.4%	2,883	31.8%
	Sector total	15,110	24.0%	15,772	22.2%
TOTAL		25,204	35.1%	24,605	31.7%

(Students missing exam results on one or more of these subjects are excluded from table 2b, totaling 1,442 in 2002 and 1,482 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 2c. Underprepared Students in Reading by Institution and Sector

		2002 credential-seeking cohort with placement data		2004 credential-seeking cohort with placement data	
		Number	Percent Underprepared	Number	Percent Underprepared
Two-year public	KCTCS	10,094	39.2%	8,833	38.9%
Four-year public	Eastern Kentucky University	2,129	20.1%	2,499	18.3%
	Kentucky State University	270	60.7%	324	51.9%
	Morehead State University	1,357	29.5%	1,276	29.9%
	Murray State University	1,429	15.9%	1,365	11.4%
	Northern Kentucky University	1,695	30.1%	1,729	26.5%
	University of Kentucky	3,359	5.5%	3,608	4.0%
	University of Louisville	2,063	7.6%	2,088	5.6%
	Western Kentucky University	2,808	24.4%	2,883	27.2%
	Sector total	15,110	18.2%	15,772	16.9%
TOTAL		25,204	26.6%	24,605	24.8%

(Students missing exam results on one or more of these subjects are excluded from table 2c, totaling 1,442 in 2002 and 1,482 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 3. Number of Subjects in which Students were Underprepared by Institution and Sector

		2002 credential- seeking cohort	Number of subjects in which students were underprepared			2004 credential- seeking cohort	Number of subjects in which students were underprepared		
			One	Two	Three		One	Two	Three
Two- year public	KCTCS	10,094	26.3%	26.3%	23.9%	8,833	29.9%	26.7%	26.4%
Four- year public	Eastern Kentucky University	2,129	21.8%	15.6%	10.9%	2,499	22.5%	16.4%	8.9%
	Kentucky State University	270	12.2%	24.8%	50.0%	324	19.1%	24.4%	37.0%
	Morehead State University	1,357	26.7%	17.8%	18.0%	1,276	24.5%	19.7%	18.2%
	Murray State University	1,429	20.1%	11.8%	7.1%	1,365	20.4%	7.8%	3.5%
	Northern Kentucky University	1,695	24.6%	18.2%	18.0%	1,729	23.4%	19.4%	13.8%
	University of Kentucky	3,359	11.0%	3.6%	0.5%	3,608	9.5%	1.7%	0.3%
	University of Louisville	2,063	18.8%	4.7%	0.7%	2,088	14.6%	4.0%	0.8%
	Western Kentucky University	2,808	21.0%	13.1%	14.0%	2,883	20.5%	14.5%	16.2%
	Sector total	15,110	19.3%	11.3%	9.5%	15,772	18.1%	11.0%	8.6%
TOTAL		25,204	22.1%	17.3%	15.3%	24,605	22.4%	16.7%	15.0%

(Students missing exam results on one or more of these subjects are excluded from table 3, totaling 1,442 in 2002 and 1,482 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 4. Preparation Level by Student Demographics, All Public Institutions

		2002 credential-seeking cohort with placement data		2004 credential-seeking cohort with placement data	
		Number	Percent Underprepared	Number	Percent Underprepared
GENDER	Female	14,963	54.8%	14,605	54.4%
	Male	11,279	51.7%	11,102	50.3%
FULL/PART TIME	Full time	23,175	50.3%	23,101	48.9%
	Part time	3,067	77.6%	2,606	85.7%
RACE	Nonresident Alien	91	50.5%	67	62.1%
	Black, Non-Hispanic	2,154	77.5%	2,270	77.2%
	American Indian or Alaskan Native	65	69.2%	68	55.6%
	Asian or Pacific Islander	279	43.7%	282	39.2%
	Hispanic	237	60.8%	284	62.9%
	White, Non-Hispanic	22,261	50.2%	21,461	49.3%
	Unknown	1,155	73.2%	1,275	61.1%
RESIDENCY	In-State	22,330	55.6%	21,618	54.8%
	Out-of-State w/Tuition Reciprocity	697	50.9%	700	58.1%
	Out-of-State w/o Tuition Rec.	3,197	39.8%	3,361	37.8%
	Out-of-State, SREB or UK/UF	18	22.2%	28	10.7%
AGE	17-24 (Traditional)	23,358	50.2%	23,529	49.1%
	25+ (Nontraditional)	2,884	80.3%	2,178	89.8%
HIGH SCHOOL	Kentucky high school	19,571	52.8%	19,199	51.3%
	Out-of-state high school	4,866	46.3%	4,891	45.3%
	Kentucky GED	1,461	81.5%	1,418	92.4%
	Out-of-state GED	483	76.0%	420	90.0%
Total		26,242	53.5%	25,707	52.6%

(Students missing data on one or more of the variables above are excluded from table 4, totaling 403 in 2002 and 380 in 2004. Also, students with conflicting GED and high school data were added into all relevant categories, double counting 134 students in the HIGH SCHOOL category in 2002 and 221 students in 2004.)

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English or reading, or at an equivalent level on the SAT or a standardized on-campus placement exam.

Table 5. Recent Graduates of Kentucky High Schools: Underprepared Students by Institution and Sector, Incoming Classes of 2002 and 2004

		Graduates of Kentucky high schools in 2001 and 2002 who entered college in fall 2002		Graduates of Kentucky high schools in 2003 and 2004 who entered college in fall 2004	
		Number	Percent Underprepared	Number	Percent Underprepared
Two-year public	KCTCS	5,050	73.6%	4,657	76.4%
Four-year public	Eastern Kentucky University	1,351	47.4%	1,492	47.1%
	Kentucky State University	106	85.8%	139	84.9%
	Morehead State University	905	62.8%	894	61.7%
	Murray State University	854	40.5%	875	28.9%
	Northern Kentucky University	1,258	58.0%	1,177	52.7%
	University of Kentucky	2,877	14.4%	2,997	10.4%
	University of Louisville	1,901	22.5%	1,950	18.1%
	Western Kentucky University	2,043	46.1%	2,103	47.6%
	Sector total	11,295	36.8%	11,627	33.6%
TOTAL		16,345	48.2%	16,284	45.9%

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English or reading, or at an equivalent level on the SAT or a standardized on-campus placement exam.

Table 6a. Recent Graduates of Kentucky High Schools: Underprepared Students in Mathematics by Institution and Sector

		Graduates of Kentucky high schools in 2001 and 2002 who entered college in fall 2002		Graduates of Kentucky high schools in 2003 and 2004 who entered college in fall 2004	
		Number	Percent underprepared	Number	Percent underprepared
Two-year public	KCTCS	4,874	56.0%	4,567	64.7%
Four-year public	Eastern Kentucky University	1,346	35.1%	1,486	33.6%
	Kentucky State University	95	70.5%	128	72.7%
	Morehead State University	904	48.6%	892	48.4%
	Murray State University	854	22.4%	875	19.4%
	Northern Kentucky University	1,209	41.9%	1,123	33.8%
	University of Kentucky	2,804	7.7%	2,923	5.6%
	University of Louisville	1,868	12.6%	1,913	11.6%
	Western Kentucky University	2,036	33.8%	2,096	36.0%
	Sector total	11,116	25.4%	11,436	23.7%
TOTAL		15,990	34.7%	16,003	35.4%

(Students missing exam results on one or more of these subjects are excluded from table 6a, totaling 355 in 2002 and 281 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 6b. Recent Graduates of Kentucky High Schools: Underprepared Students in English by Institution and Sector

		Graduates of Kentucky high schools in 2001 and 2002 who entered college in fall 2002		Graduates of Kentucky high schools in 2003 and 2004 who entered college in fall 2004	
		Number	Percent underprepared	Number	Percent underprepared
Two-year public	KCTCS	4,874	52.7%	4,567	51.3%
Four-year public	Eastern Kentucky University	1,346	29.5%	1,486	27.8%
	Kentucky State University	95	83.2%	128	60.2%
	Morehead State University	904	42.7%	892	40.4%
	Murray State University	854	28.0%	875	12.3%
	Northern Kentucky University	1,209	40.2%	1,123	38.6%
	University of Kentucky	2,804	5.8%	2,923	3.3%
	University of Louisville	1,868	8.7%	1,913	6.9%
	Western Kentucky University	2,036	28.9%	2,096	29.5%
	Sector Total	11,116	22.5%	11,436	19.6%
TOTAL		15,990	31.7%	16,003	28.6%

(Students missing exam results on one or more of these subjects are excluded from table 6b, totaling 355 in 2002 and 281 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 6c. Recent Graduates of Kentucky High Schools: Underprepared Students in Reading by Institution and Sector

		Graduates of Kentucky high schools in 2001 and 2002 who entered college in fall 2002		Graduates of Kentucky high schools in 2003 and 2004 who entered college in fall 2004	
		Number	Percent underprepared	Number	Percent underprepared
Two-year public	KCTCS	4,874	41.5%	4,567	40.6%
Four-year public	Eastern Kentucky University	1,346	20.7%	1,486	18.8%
	Kentucky State University	95	63.2%	128	53.1%
	Morehead State University	904	31.4%	892	30.3%
	Murray State University	854	16.5%	875	8.9%
	Northern Kentucky University	1,209	30.3%	1,123	25.6%
	University of Kentucky	2,804	5.0%	2,923	3.5%
	University of Louisville	1,868	7.1%	1,913	5.2%
	Western Kentucky University	2,036	24.4%	2,096	25.1%
	Sector Total	11,116	17.1%	11,436	15.0%
TOTAL		15,990	24.5%	16,003	22.3%

(Students missing exam results on one or more of these subjects are excluded from table 6c, totaling 355 in 2002 and 281 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 7. Recent Graduates of Kentucky High Schools: Number of Subjects in which Students were Underprepared by Institution and Sector

		2002 entering students, recent KY high school graduates	Number of subjects in which students were underprepared			2004 entering students, recent KY high school graduates	Number of subjects in which students were underprepared		
			One	Two	Three		One	Two	Three
Two- year public	KCTCS	4,874	23.8%	24.1%	26.1%	4,567	24.2%	24.5%	27.8%
Four- year public	Eastern Kentucky University	1,346	21.0%	15.1%	11.4%	1,486	22.3%	16.6%	8.3%
	Kentucky State University	95	12.6%	26.3%	50.5%	128	18.8%	29.7%	35.9%
	Morehead State University	904	23.9%	18.0%	20.9%	892	23.5%	19.2%	19.1%
	Murray State University	854	21.3%	12.1%	7.1%	875	19.9%	6.3%	2.7%
	Northern Kentucky University	1,209	23.0%	18.5%	17.5%	1,123	23.0%	17.6%	13.3%
	University of Kentucky	2,804	11.2%	3.1%	0.4%	2,923	9.1%	1.3%	0.2%
	University of Louisville	1,868	17.9%	4.3%	0.6%	1,913	13.9%	3.9%	0.6%
	Western Kentucky University	2,036	19.3%	12.7%	14.1%	2,096	19.3%	13.5%	14.7%
	Sector Total	11,116	18.1%	10.3%	8.8%	11,436	16.9%	9.7%	7.3%
TOTAL		15,990	19.8%	14.5%	14.0%	16,003	19.0%	13.9%	13.2%

(Students missing exam results on one or more of these subjects are excluded from table 7, totaling 355 in 2002 and 281 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: Students are categorized as underprepared if they score 17 or less on the relevant ACT subject exam or at an equivalent level on a standardized on-campus placement exam.

Table 8. Recent Graduates of Kentucky High Schools: Preparation Level by Student Demographics

	Preparation level of graduates of Kentucky high schools in 2001 and 2002 who entered college in fall 2002		Preparation level of graduates of Kentucky high schools in 2003 and 2004 who entered college in fall 2004	
	Number	Percent Underprepared	Number	Percent Underprepared
GENDER				
Female	9,009	49.3%	8,870	47.5%
Male	7,327	46.8%	7,315	43.9%
FULL/PART TIME				
Full time	15,430	46.6%	15,328	43.9%
Part time	906	75.5%	857	80.4%
RACE				
Nonresident Alien	7		8	
Black, Non-Hispanic	1,149	72.1%	1,249	72.4%
American Indian or Alaskan Native	25	60.0%	41	46.3%
Asian or Pacific Islander	184	36.4%	162	36.4%
Hispanic	118	51.7%	129	50.4%
White, Non-Hispanic	14,234	45.5%	13,343	42.9%
Unknown	619	68.8%	1,253	51.1%
Total	16,336	48.2%	16,185	45.9%

(Students missing data on one or more of the variables above are excluded from table 8, totaling 9 in 2002 and 99 in 2004.)

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English or reading, or at at equivalent level on the SAT or a standardized on-campus placement exam.

Table 9. One-Year Retention by Preparation Level of Public Postsecondary Students (Entire Credential-Seeking Cohort with Placement Data)

		Retention of 2002 entrants in fall 2003			Retention of 2004 entrants in fall 2005		
		Underprepared in one or more subjects			Underprepared in one or more subjects		
		Prepared	Under-prepared	All students	Prepared	Under-prepared	All students
Not retained in KY PSE system	Number	2,384	5,460	7,844	2,093	5,446	7,539
	Percent	19.5%	38.8%	30%	17.1%	39.4%	28.9%
Retained at KY institution other than where started	Number	862	849	1,711	912	710	3,927
	Percent	7.1%	6.0%	7%	7.4%	5.1%	15.1%
Retained at institution where started	Number	8,969	7,760	16,729	9,266	7,660	14,621
	Percent	73.4%	55.2%	64%	75.5%	55.4%	56.0%
Total	Number	12,215	14,069	26,284	12,271	13,816	26,087
	Percent	100%	100%	100%	100%	100%	100%
Retained anywhere in Kentucky PSE system		80.5%	61.2%	71%	82.9%	60.5%	71.1

(362 students with missing retention data in 2002 were excluded from table 11.)

Note: System-level retention includes students who enrolled at any independent or public postsecondary institution in Kentucky in their second year.

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English or reading, or at an equivalent level on the SAT or a standardized on-campus placement exam.

Table 10. One-Year Retention by Number of Subjects Underprepared of Public Postsecondary Students (Entire Credential-Seeking Cohort with Placement Data)

		Retention of 2002 entrants in fall 2003				Retention of 2004 entrants in fall 2005			
		Number of subjects in which students were underprepared				Number of subjects in which students were underprepared			
		One	Two	Three	All students	One	Two	Three	All students
Not retained at any KY postsecondary institution	Number	1,810	1,713	1,715	7,370	1,841	1,663	1,733	7,077
	Percent	33.1%	39.9%	45.3%	30%	33.5%	40.5%	47.0%	28.8%
Retained at KY institution other than where started	Number	383	273	174	1,668	360	212	126	3,834
	Percent	7.0%	6.4%	4.6%	7%	6.5%	5.2%	3.4%	15.6%
Retained at native institution where started	Number	3,271	2,304	1,897	15,826	3,300	2,228	1,829	13,694
	Percent	59.9%	53.7%	50.1%	64%	60.0%	54.3%	49.6%	55.7%
Total	Number	5,464	4,290	3,786	24,864	5,501	4,103	3,688	24,605
	Percent	100%	100%	100%	100%	100%	100%	100%	100%
Retained anywhere in Kentucky PSE system		66.9%	60.1%	54.7%	71.0%	66.5%	59.5%	53.0%	71.3%

(Students missing exam results on one or more of the variables above are excluded from table 12, totaling 1,782 in 2002 and 1,482 in 2004. Students taking only the SAT are included in these missing data because there is no reading test on the SAT.)

Note: System-level retention includes students who enrolled at any independent or public postsecondary institution in Kentucky for their second year.

Note: Students are categorized as underprepared if they score 17 or less on one or more ACT subject exams in math, English or reading, or at an equivalent level on a standardized on-campus placement exam.

Appendix

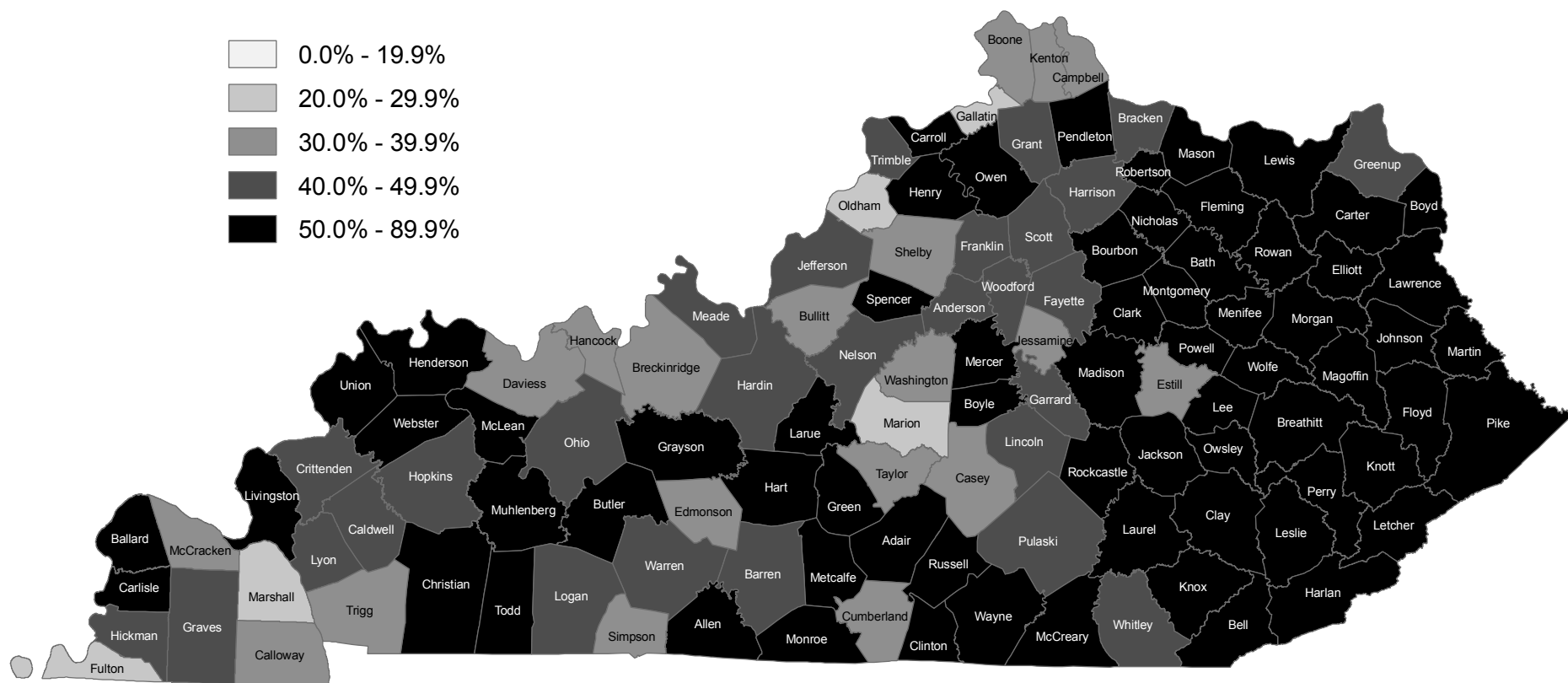
County maps of the developmental needs of
recent Kentucky high school graduates

Appendix

County maps of the developmental needs of recent Kentucky high school graduates

Percentage of Recent HS Graduates Entering College Underprepared in One or More Subjects, 2004

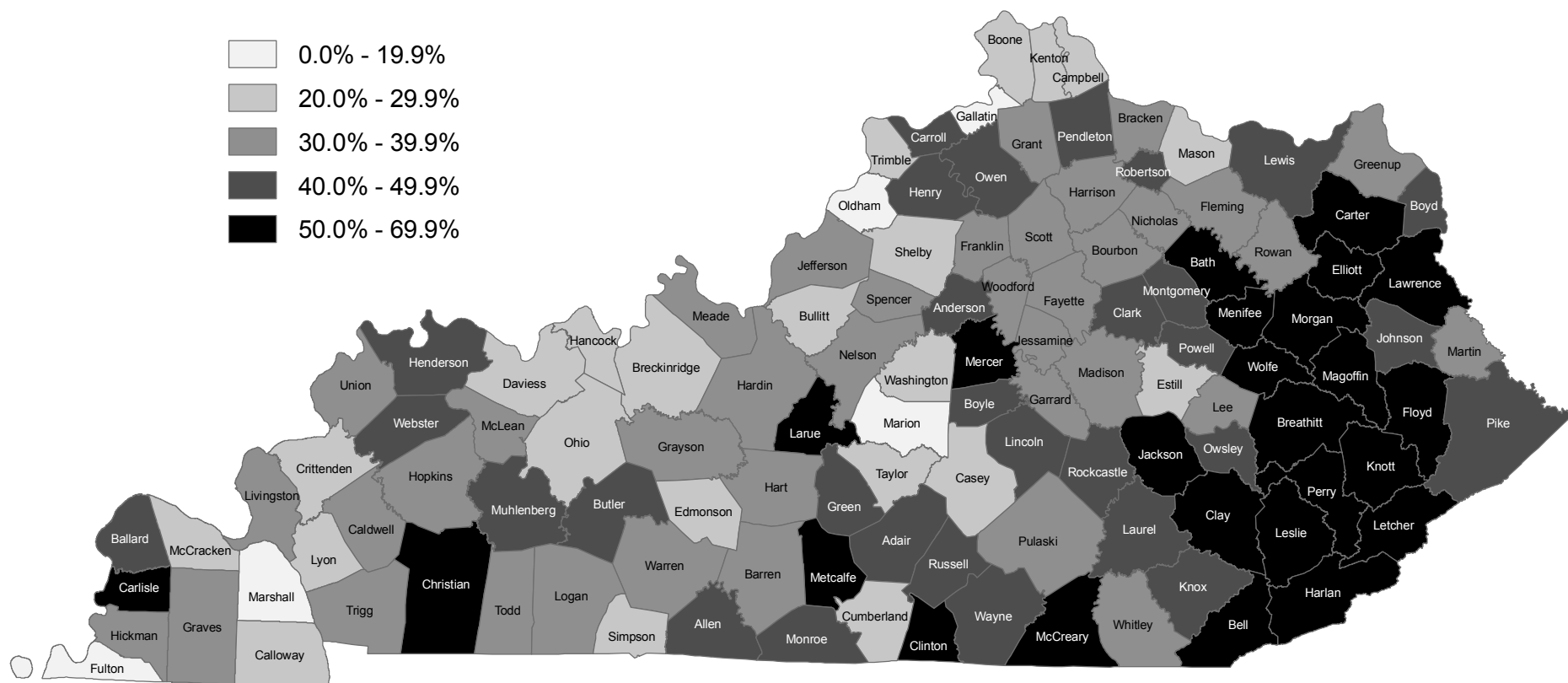
Students scoring less than 18 on one or more of the ACT exams in mathematics, English, and reading (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the fall of 2004 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Percentage of Recent HS Graduates Entering College Underprepared in Mathematics, 2004

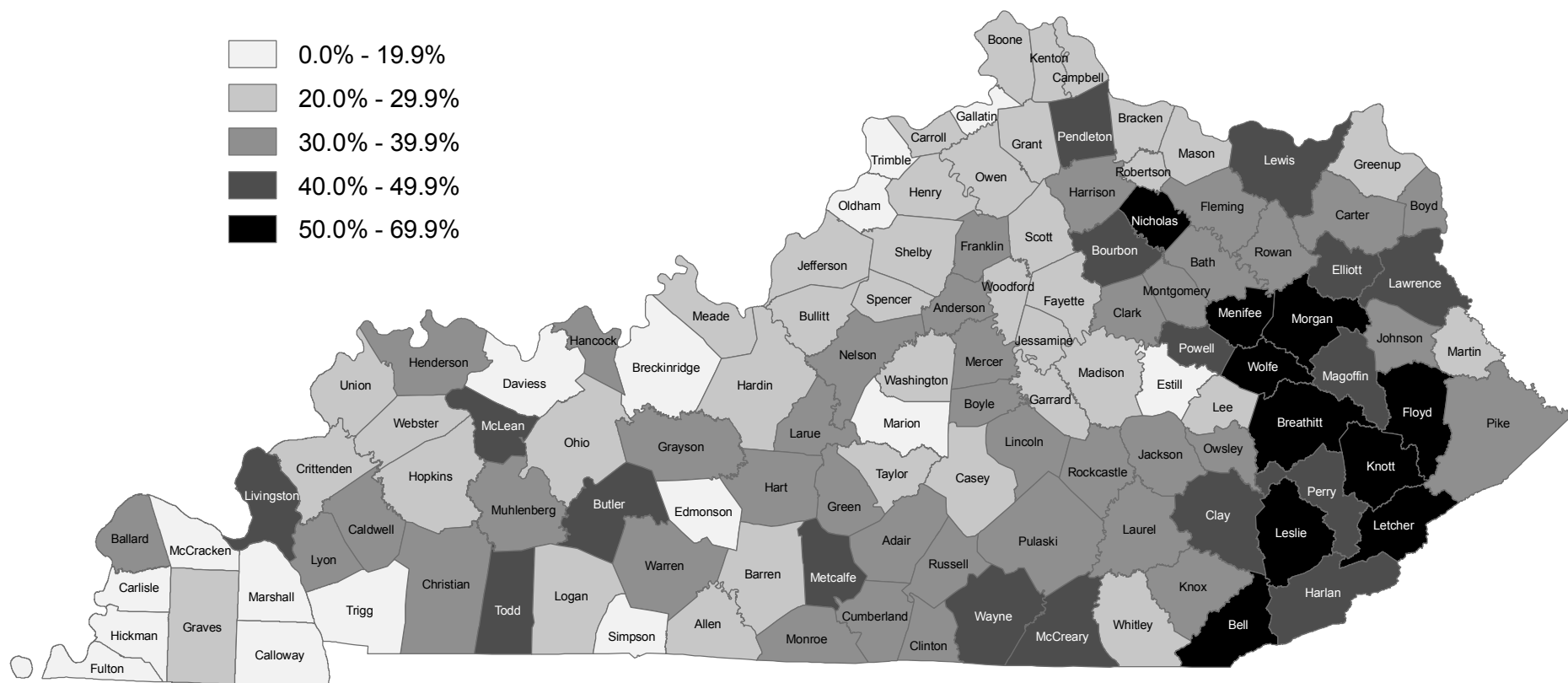
Students scoring less than 18 on the ACT mathematics exam (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the fall of 2004 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Percentage of Recent HS Graduates Entering College Underprepared in English, 2004

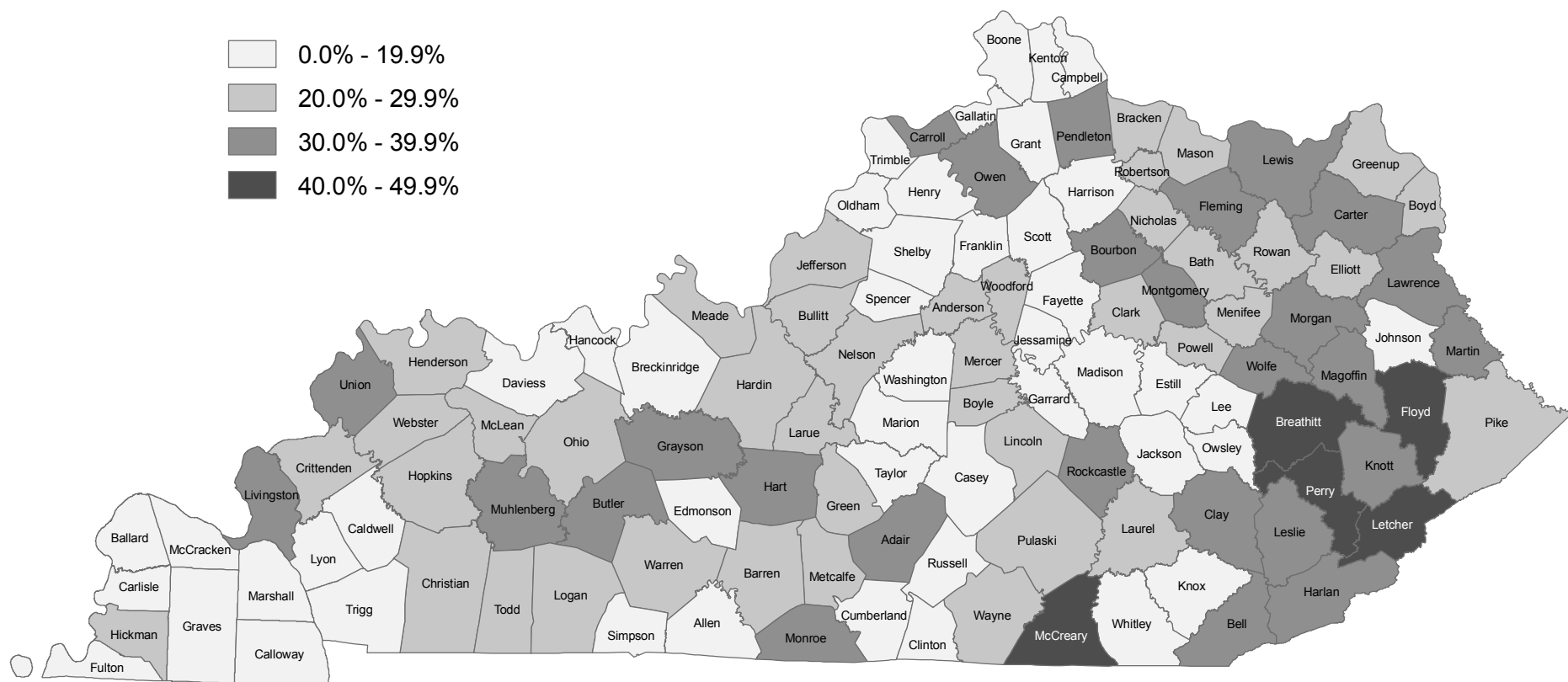
Students scoring less than 18 on the ACT English exam (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the fall of 2004 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Percentage of Recent HS Graduates Entering College Underprepared in Reading, 2004

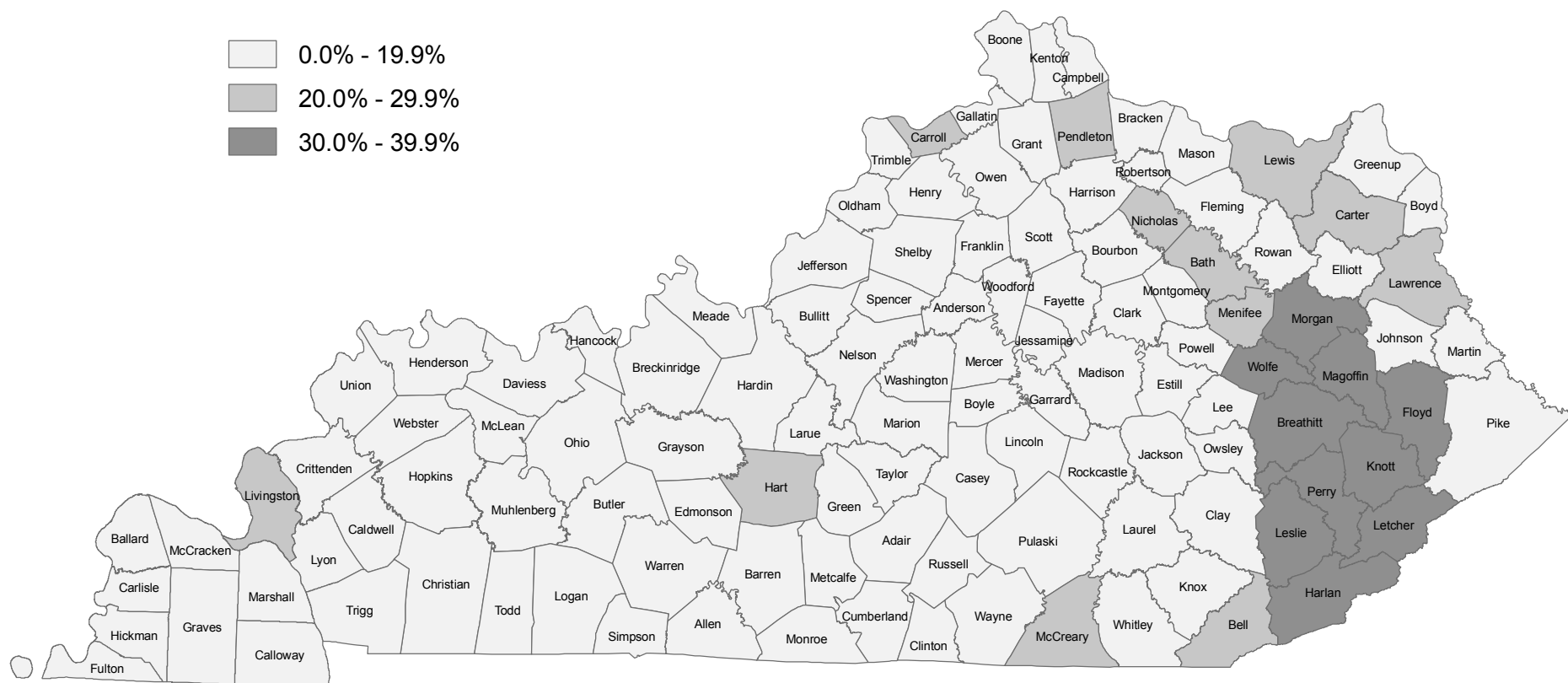
Students scoring less than 18 on the ACT reading exam (or the equivalent on on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the fall of 2004 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database

Percentage of Recent HS Graduates Entering College Underprepared in All Three Subjects, 2004

Students scoring less than 18 on all three of the ACT exams in mathematics, English, and reading (or the equivalent on the SAT or on-campus placement exams) as a percentage of all students taking such exams and entering public postsecondary institutions in the fall of 2004 after graduating from high school within the previous two years.



Source: Council on Postsecondary Education Comprehensive Database